RATION AND POWER OF

As a below named inventor. I hereby declare that my residence, post office address and citizenship are as stated below next to my name: that I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

PROCESS FOR IN VIVO PRODUCTION OF ASTAXANTHIN AND PHAFFIA RHODOZYMA YEAST OF ENHANCED ASTAXANTHIN CONTENT

which application is: the attached application (for unginal application)

🛛 application Serial No._ August 23, 1989 and amended on

(for declaration not accompanying application) that I have reviewed and understand the contents of the specification of the above-identified application, including the claims, as amended by any amendment referred to above: that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application under 37 C.F.R. 1.56(a), i.e. such information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent: that I hereby claim foreign priority benefits under Title 35, United States Code §119, §172 or §365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified on said list any foreign application for patent or inventor's certificate on this invention having a filing date before that of the application on which priority is claimed:

Application Number

Country

Filing Date 1 6 1991 Priority Claimed

I hereby claim the benefit of Title 35, United States Code §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge my duty to disclose any material information under 37 C.F.R. 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.

Filing Date

(patented, pending, abandoned)

07/385,961 07/229,536 July 28, 1989 August 8, 1988 abandoned abandoned

I hereby appoint John H. Mion, Reg. No. 18,879, Donald E. Zinn, Reg. No. 19,046, Thomas J. Macpeak, Reg. No. 19,292, Robert J. Seas, Jr., Reg. No. 21, 092, Darryl Mexic, Reg. No. 23,063, Robert V. Sloan, Reg. No. 22,775, Peter D. Olexy, Reg. No. 24,513, J. Frank Osha, Reg. No. 24, 625, Waddell A. Biggart, Reg. No. 24,861, Robert G. McMorrow, Reg. No. 19,093, Louis Gubinsky, Reg. No. 24,835, Neil B. Siegel, Reg. No. 25,200, David J. Cushing, Reg. No. 28,703, John R. Inge, Reg. No. 26,916, Joseph J. Ruch, Jr., Reg. No. 26, 577, Sheldon I. Landsman, Reg. No. 25,430, Richard C. Turner, Reg. No. 29,710, Howard L. Bernstein, Reg. No. 25,665, and Alan J. Kasper, Reg. No. 25,426, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE, MION, ZINN, MACPEAK & SEAS, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037.

	Date	First Inventor Eric		Α.	Johnson
	Residence Madison, Wisconsi	n Signature	First Name	Middle Initial	Last Name
		Post Office Add	iress 3901 Cou		
	Citizenship		Madison,	Wisconsin 54711	
2-80	Date 1 (100. 26, 1990	Second Invento	Huei-hsium	ng / Middle Irunal	Yang Last Name
	Residence Rockville, Marylan	d Signature	luci Lina	of Jany	
	T/15	Post Office Add	ress / 2287 G1	enmore Terrace	
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	ird inventor	Beril		Geldiay-Tuncer
lie (First Name	Middle Initial	Last Name
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	Post Office Address	6348 SOK. N	o: 13/7, Bostan	li-Karsiyaka
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ie <u></u>	_ Fourth Inventor	William	т.	Hall
-		First Name	Middle Initial	Last Name
idence Rockville, Maryl	-			·
	Post Office Address	, 4704 Norbect	k Road	
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te	Fifth Inventor	David First Name	Middle Initial	Schreiber Last Name
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	Sixth Inventor	First Name	Middle Initial	Last Name
sidence San Diego,	_ Signature	_		
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California	Day Office Address	, 10975 Guada	limar Way	
California	_ Post Office Address			9
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California	_ Post Office Address _ Seventh Inventor _	San Diego,	California 9212	
California	Post Office Address Seventh Inventor Signature	San Diego,	California 9212 Middle Initial	Last Name
California	Post Office Address Seventh Inventor Signature Post Office Address	San Diego,	California 9212 Middle Initial	Last Name
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California izenship X site citizenship	Post Office Address Seventh Inventor Signature Post Office Address Eighth Inventor	First Name	California 9212 Middle Initial	Last Name

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name: that I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (If plural names are listed below) of the subject matter claimed and for which a patent is sought

PROCESS FOR IN VIVO PRODUCTION OF ASTAXANTHIN AND PHAFFIA RHODOZYMA YEAST OF ENHANCED ASTAXANTHIN CONTENT

which application is: the attached application (for unginal application)

🖫 application Serial No._ August 23, 1989 , and amended on

(for declaration not accompanying application) that I have reviewed and understand the contents of the specification of the above-identified application, including the claims, as amended by any amendment referred to above: that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application under 37 C.F.R. 1.56(a), i.e. such information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent: that I hereby claim foreign priority benefits under Title 35, United States Code §119, §172 or §365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified on said list any foreign application for patent or inventor's certificate on this invention having a filing date before that of the application on which priority is claimed:

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Application Serial No.

Filing Date

Status

(patented, pending, abandoned) 07/385,961 July 28, 1989 abandoned 07/229,536 August 8, 1988 abandoned

I hereby appoint John H. Mion, Reg. No. 18,879, Donald E. Zinn, Reg. No. 19,046, Thomas J. Macpeak, Reg. No. 19,292, Robert J. Seas, Jr., Reg. No. 21, 092, Darryl Mexic, Reg. No. 23,063, Robert V. Sloan, Reg. No. 22,775, Peter D. Olexy, Reg. No. 24,513, J. Frank Osha, Reg. No. 24, 625, Waddell A. Biggart, Reg. No. 24,861, Robert G. McMorrow, Reg. No. 19,093, Louis Gubinsky, Reg. No. 24,835, Neil B. Siegel, Reg. No. 25,200, David J. Cushing, Reg. No. 28,703, John R. Inge, Reg. No. 26,916, Joseph J. Ruch, Jr., Reg. No. 26,577, Sheldon I. Landsman, Reg. No. 25,430, Richard C. Turner, Reg. No. 29,710, Howard I. Rametain, Reg. No. 25,665, and Alan I. Kasper, Reg. No. 25,426, my attempts to proseque. Reg. No. 29,710, Howard L. Bernstein, Reg. No. 25,665, and Alan J. Kasper, Reg. No. 25,426, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE, MION, ZINN, MACPEAK & SEAS, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037.

Date	First Inventor	Eric	Α.	Johnson
Residence Madison, Wisconsin		First Name	Middle Initial	Last Name
		3901 Counc	il Crest	
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Date	Second Inventor	Huei-hsiung		Yang
Residence Rockville, Maryland		Ei- Vana	Middle Irunal	Last Name
		2287 Glen	more Terrace	
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Date X 12 10 90	rd Inventor	Beril		Geldiay-Tuncer
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ate	Fourth Inventor	William	т.	Hall
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itizenship <u>4</u>	•	KOCKVIIIE,	Maryland 20853	
tale	Fifth Inventor	David		Schreiber
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tizenship <u> </u>	•	COTUMBIA, M	aryland 21045	
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ale	Sixth Inventor	First Name	Middle Initial	Last Name
sidence San Diego,	Signature			
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izenship X	rost Other Address.		California 92129)
ate	Seventh Inventor	First Name	Middle Initial	Last Name
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tizenship	Signature Post Office Address Eighth Inventor Signature	First Name	Middle Initial	Last Name

9/21/90 SOLEHOINT MION AND POWER OF

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🛮 application Serial No._ August 23, 1989 , and amended on

(for declaration not accompanying application)

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Application Number

Country

Filing Date

Priority Claimed in 16 (ves or no)

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Application Serial No.

Filing Date

Status

07/385,961 07/229,536

July 28, 1989 August 8, 1988 (patented, pending, abandoned) abandoned abandoned

I hereby appoint John H. Mion, Reg. No. 18,879, Donald E. Zinn, Reg. No. 19,046, Thomas J. Macpeak, Reg. No. 19,292, Robert J. Seas, Jr., Reg. No. 21, 092, Darryl Mexic, Reg. No. 23,063, Robert V. Sloan, Reg. No. 22,775, Peter D. Olexy, Reg. No. 24,513, J. Frank Osha, Reg. No. 24, 625, Waddell A. Biggart, Reg. No. 24,861, Robert G. McMorrow, Reg. No. 19,093, Louis Gubinsky, Reg. No. 24,835, Neil B. Siegel, Reg. No. 25,200, David J. Cushing, Reg. No. 28,703, John R. Inge, Reg. No. 26,916, Joseph J. Ruch, Jr., Reg. No. 26, 577, Sheldon I. Landsman, Reg. No. 25,430, Richard C. Turner, Pag. No. 20,710, Housed L. Barratain, Reg. No. 25,645, and Alan L. Kanner Reg. No. 25,426, my attempts to prosecute Reg. No. 29,710, Howard L. Bernstein, Reg. No. 25,665, and Alan J. Kasper, Reg. No. 25,426, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE, MION, ZINN, MACPEAK & SEAS, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037.

Date		First Inventor,	Eric	Α.	Johnson
Residence	Madison, Wisconsin Sig		First Name	Middle Initial	Last Name
		Post Office Ac	dress 3901 Counc	il Crest	
Citizenship_	***			Madison, Wisconsin 54711	
Date		Second Inven	mor Huei-hsiung		Yang
		Maryland Signature	First Name	Middle (rutal	Cast Name
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Citizenship_				, Maryland 20853	

Date (i Inventor	Beril		Geldiay-Tunce
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Date V 11.13.90		William	Τ.	Hall
Date X	_ Fourth Inventor	First Name	T. Middle Initial	Last Name
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ale	_ Fifth Inventor	David		Schreiber
		First Name	Middle Initial	Last Name
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	Post Office Address.	5417 Graywi	ng Court	
itizenship <u>-</u>			Maryland 21045	•
ate	Sixth Inventor	Kwok		Но
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tizenship X			California 92129)
ate	Seventh Inventor		ALAN V-Service	
·		First Name	Middle Initial	Last Name
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·	Signature	First Name		
esidence	Signature Post Office Address	First Name		
itizenship	Signature Post Office Address	First Name		
itizenship	Signature Post Office Address	First Name		
esidence	Signature Post Office Address Eighth Inventor	First Name	Middle Initial	Last Name

TION AND POWER OF TORNEY

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Application Number

Country

Filing Date. IAN 10 1991 Priority Claimed (yes or no)

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Application Serial No.

Filing Date

Status

(patented, pending, abandoned)

07/385,961 07/229,536 July 28, 1989 August 8, 1988

abandoned abandoned

I hereby appoint John H. Mion, Reg. No. 18,879, Donald E. Zinn, Reg. No. 19,046, Thomas J. Macpeak, Reg. No. 19,292, Robert J. Seas, Jr., Reg. No. 21, 092, Darryl Mexic, Reg. No. 23,063, Robert V. Sloan, Reg. No. 22,775, Peter D. Olexy, Reg. No. 24,513, J. Frank Osha, Reg. No. 24, 625, Waddell A. Biggart, Reg. No. 24,861, Robert G. McMorrow, Reg. No. 19,093, Louis Gubinsky, Reg. No. 24,835, Neil B. Siegel, Reg. No. 25,200, David J. Cushing, Reg. No. 28,703, John R. Inge, Reg. No. 26,916, Joseph J. Ruch, Jr., Reg. No. 26, 577, Sheldon I. Landsman, Reg. No. 25,430, Richard C. Turner, Reg. No. 29,710, Howard L. Bernstein, Reg. No. 25,665, and Alan J. Kasper, Reg. No. 25,426, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE, MION, ZINN, MACPEAK & SEAS, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037.

Date		First Inventor	Eric	Α.	Johnson	
	Madison, Wisconsin		First Name	Middle Irutial	Last Name	
		Post Office Addre	.3901 Counci	l Crest		
Citizenship_		*******	Madison, Wi	sconsin 54711		
Date		Second Inventor	Huei-hsiung		Yanz	
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Date !	Inventor	Beril		Geldiay-Tuncer
		First Name	Michael	Last Name
Residence MIR, TURKEY	Signature			
	Post Office Address _	_ 634 8 S T K. N	o: 13/7, Bostanli	-Karsiyaka
		12 MIR, TUR	KEY	
itizenship	-	**************************************		
Date	Fourth Inventor	William	т.	Hall
		First Name	Middle Initial	Last Name
lesidence <u>Rockville, Maryl</u> ar	•			
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Date X 1/7/91	Fifth Inventor	David	<u> </u>	chreiber
	4	First Name	Middle Initial	Last Name
Residence / Columbia, Maryland	Signature X	Towns Sch	veiber	
MD	Post Office Address.	, 5417 Graywi	ng Court 7/74	Talisman Lan
Citizenship X 1/5 A		Columbia, M	laryland 21045	
Date	Sixth Inventor	Kwok	······································	Но
Can Diana		First Name	Middle Initial	Last Name
Residence San Diego,	Signature		-	
California	Post Office Address.	∠ 10975 Guada	limar Way	
Citizenship X		San Diego,	California 92129	
Date	Seventh Inventor	First Name	Middle Initial	Last Name
Residence	S :	,		
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	Post Office Address			
Citizenship				
Date	Eighth Inventor	First Name	Middle Initial	Last Name
Residence	Signature			
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DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name: that I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought

PROCESS FOR IN VIVO PRODUCTION OF ASTAXANTHIN AND PHAFFIA RHODOZYMA YEAST OF ENHANCED ASTAXANTHIN CONTENT

which application is: the attached application (for original application)

2 application Serial No. 399, filed August 23, 1989 and amended on

(for declaration not accompanying application)

that I have reviewed and understand the contents of the specification of the above-identified application, including the claims, as amended by any amendment referred to above: that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application under 37 C.F.R. 1.56(a), i.e. such information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent: that I hereby claim foreign priority benefits under Title 35, United States Code §119, §172 or §365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified on said list any foreign application for parent or inventor's certificate on this invention having a filing date before that of the application on which priority is claimed:

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Priority Claimed idil 1 6 1991

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Filing Date

Status

(patented, pending, abandoned)

07/385,961 07/229,536 July 28, 1989 August 8, 1988 abandoned abandoned

I hereby appoint John H. Mion, Reg. No. 18,879, Donald E. Zinn, Reg. No. 19,046, Thomas J. Macpeak, Reg. No. 19,292, Robert J. Seas, Jr., Reg. No. 21, 092, Darryl Mexic, Reg. No. 23,063, Robert V. Sloan, Reg. No. 22,775, Peter D. Olexy, Reg. No. 24,513, J. Frank Osha, Reg. No. 24, 625, Waddell A. Biggart, Reg. No. 24,861, Robert G. McMorrow, Reg. No. 19,093, Louis Gubinsky, Reg. No. 24,835, Neil B. Siegel, Reg. No. 25,200, David J. Cushing, Reg. No. 28,703, John R. Inge, Reg. No. 26,916, Joseph J. Ruch, Jr., Reg. No. 26, 577, Sheldon I. Landsman, Reg. No. 25,430, Richard C. Turner. Reg. No. 29,710, Howard L. Bernstein, Reg. No. 25,665, and Alan J. Kasper, Reg. No. 25,426, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE, MION, ZINN, MACPEAK & SEAS, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037.

Date	First Inventor	Eric	Α.	Johnson
Residence Madison, Wi		First Name	Middle Initial	Last Name
	Post Office Addr	3901 Counci	1 Crest	
Citizenship			sconsin 54711	
Date	Second Inventor	Huei-hsiung		Yang
Residence Rockville, Ma	aryland Signature	First Name	Middle Initial	Cast Name
Residence Rockville, Ma		Fust Name		Cast Name

Date 4	d Inventor	Beril		Geldiay-Tunce
		First Name	Middle Initial	Last Name
Residence MIR, TURKEY	Signature			
	Post Office Address	6348 96K. No	: 13/7, Bostan	li-Karsiyaka
Citizenship		12 MIR, TURK	ŒY	
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Date .	Fourth Inventor	William	т.	Hall
		First Name	Middle Initial	Last Name
Residence Rockville, Maryla	ndsignature			
Citizenship 4	rost Office Address		laryland 20853	
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Date	Fifth Inventor	David		Schreiber
Columbia Manuland		First Name	Middle Initial	Last Name
Residence / Columbia, Maryland	0.6			
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Citizenship X U.S.	Seventh Inventor	San Diego, C	alifornia 9212 Middle Initial	Last Name
Citizenship X U.S. Date	Seventh Inventor	San Diego, C	alifornia 9212 Middle Initial	Last Name
Citizenship X U.S. Date	Seventh Inventor Signature Post Office Address	San Diego, C	Alifornia 9212 Middle Initial	Last Name
Citizenship V. S. Date Residence Citizenship	Seventh Inventor Signature Post Office Address	San Diego, C	Alifornia 9212 Middle Initial	Last Name
Citizenship V. S. Date Residence Citizenship	Seventh Inventor Signature Post Office Address Eighth Inventor	First Name	Middle Initial	Last Name

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As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name: that I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled:

PROCESS FOR IN VIVO PRODUCTION OF ASTAXANTHIN AND PHAFFIA RHODOZYMA YEAST OF ENHANCED ASTAXANTHIN CONTENT

which application is:

the attached application
(for original application)

Z application Serial No. 399,183 filed August 23, 1989 , and amended on

(for declaration not accompanying application)
the claims, as amended by any amendment referred to above: that I acknowledge my duty to disclose information of
which I am aware which is material to the examination of this application under 37 C.F.R. 1.56(a), i.e. such information of
where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether
to allow the application to issue as a patent: that I hereby claim foreign priority benefits under Title 35, United States
Code §119, §172 or §365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified
of the application on which priority is claimed:

Application Number

Country

Filing Date 199 Priority Claimed (yes or no)

I hereby claim the benefit of Title 35, United States Code §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge my duty to disclose any material information under 37 C.F.R. 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.

Filing Date

Status

07/385,961 07/229,536 July 28, 1989 August 8, 1988 (patented, pending, abandoned)
abandoned

abandoned abandoned

I hereby appoint John H. Mion, Reg. No. 18,879, Donald E. Zinn, Reg. No. 19,046, Thomas J. Macpeak, Reg. No. 19,292, Robert J. Seas, Jr., Reg. No. 21, 092, Darryl Mexic, Reg. No. 23,063, Robert V. Sloan, Reg. No. 22,775, Peter D. Olexy, Reg. No. 24,513, J. Frank Osha, Reg. No. 24, 625, Waddell A. Biggart, Reg. No. 24,861, Robert G. McMorrow, Reg. No. 19,093, Louis Gubinsky, Reg. No. 24,835, Neil B. Siegel, Reg. No. 25,200, David J. Cushing, Reg. No. 28,703, John R. Inge, Reg. No. 26,916, Joseph J. Ruch, Jr., Reg. No. 26, 577, Sheldon I. Landsman, Reg. No. 25,430, Richard C. Turner, Reg. No. 29,710, Howard L. Bernstein, Reg. No. 25,665, and Alan J. Kasper, Reg. No. 25,426, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE, MION, ZINN, MACPEAK & SEAS, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037.

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